

ABSTRACT

A method and apparatus for providing a bi-directional communication in a mobile communication system by a Code Division Duplexing. In the Code Division Duplexing, the data to be transmitted is incorporated with unique codes having an orthogonal property to designate a forward and reverse direction communication, thereby allowing a bi-directional communication. Because the data can be efficiently transmitted through one channel, the Code Division Duplexing can provide a bi-directional communication for low tier bandwidth channels such as private and ISM communication systems.